20001119.ba v03_n039.bam.20001119

>From ???@??? Sun Nov 19 00:49:06 2000 -0600
Date: Sun, 19 Nov 2000 00:46:36 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3039
Message-Id: <20001119074749.7A60548B7@devel43.theporch.com>

BOATANCHORS Digest 3039

Topics covered in this issue include:

1) Audio Processing
by Kevin Thomas <kg9il@mc.net>
2) Re: Hyperbolic Radionavigation Systems
by "Bob Duckworth" <wb4mnf@atl.org>
3) Re: Hyperbolic Radionavigation Systems
by "Bob Duckworth" <wb4mnf@atl.org>
4) Re: BC-1206-C, Shippment, & BC-348 parts.
by jan@skirrow.org
5) ART-13 Autotune Freqency Reset Accuracy?
by "Christopher A.Bowne" <radiobwn@riconnect.com>
6) Re: RAF , WW2, R1132A Receiver Manual/Schematic
by =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
7) FS - Gonset SUPER SIX
by Bob W7AVK <rsrolfne@atnet.net>
8) Need schematics fo Cygnet 270B
by "Claudio Marchesini" <cmar@datamat.it>
9) FM broadcast band bandpass filter
by Arden Allen <gumbear@pacbell.net>
10) Re: FM broadcast band bandpass filter
by "Mike Feher" <n4fs@monmouth.com>
11) Re: Hyperbolic Radionavigation Systems
by Bruce Muscolino <w6toy@erols.com>
12) Re: ART-13 Autotune Freqency Reset Accuracy?
by aafradio@erols.com
13) Shack cleaning part II: CE-200V
by JPevner@aol.com
14) Of Globes and Kings
by john <johnmb@mindspring.com>
15) Need manual for Rohde and Schwarz EK 07/2 receiver
by "Manuel Maseda" <mmaseda@gte.net>
16) Photomultiplier tubes
by Lenox Carruth <carruth@geo-thermal.com>
17) AC Motor info needed
by jan@skirrow.org
18) Re: AC Motor info needed

by Arden Allen <gumbear@pacbell.net>
19) Re: ART-13 Autotune Freqency Reset Accuracy?
by Dan <hankarn@pacbell.net>
20) Re: AC Motor info needed
by Arden Allen <gumbear@pacbell.net>
21) GROUNDING
by JOHN.SEHRING@ecunet.org
22) SOTT PHILHARMONIC
by JOHN.SEHRING@ecunet.org
23) RE: Source for Tubes
by "Ed Tanton" <n4xy@att.net>

Message-ID: <3A16B57F.A9583704@mc.net>
Date: Sat, 18 Nov 2000 10:59:43 -0600
From: Kevin Thomas <kg9il@mc.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Audio Processing
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All,

I am starting an Apache/HQ-110 winter project. I am going to try and restore a Shure 55S given to me by a friend to use with this setup. I would like to have some gain/eq/compression in this setup and would like to switch the mic between several rigs. With a 1 yr. old running around, I don't have much time for homebrew....I read with great interest the review of the W2IHY EQ in the last QST..... Any suggestions, comments, etc.....??????

I will be posting some boatanchor stuff later today FS/FT to fund this idea

tnx es 73
kevin
kg9il

Message-Id: <200011181708.MAA12109@hat-trick.atl.org>
From: "Bob Duckworth" <wb4mnf@atl.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors reflector" <boatanchors@theporch.com>
Subject: Re: Hyperbolic Radionavigation Systems
Date: Sat, 18 Nov 2000 12:13:44 -0000

I worked a year as navigator on Western Geophysicals green white and rust boats in the Pacific. This was from late '79 until early '81 We were using a commercial version of SHORAN caled MaxiRAN.

Setup:

Survey base stations. If necessary tie surveys via SatNav (Motorola or Marquadt RX and those old polar orbiting sats.) Could get within a couple of feet based on a couple of weeks data.

How it works:

Base station is approx 400Mc transponder with programmed delay to compensate for slow TR switch on control (navigation) station. Navigation station sends a signal to a transponder and times round trip. Delay is subtracted and range calculated from propagation speed and time. Best accuracy depends on good survey and relative position of vessel and shor stations. Perfect is a range station on your lay line and azimut station at 90 degrees.

Short operative description:

Preplot waypoints (RS TRS-80 :-) Some knowledge of Geodetics was necessary at the time as base stations were not always referenced to the same survey. Use best azimuth and range base stations for current position and compare ranges read from nav station to proplotted ranges. Call course corrections to wheelhouse. Check radar for tail bouy location and record offsets. Fire seismic 'guns' at appropriate points on preplot. Actual ranges were recorded with a printer coincident with gun firing. Figure course to next survey line and keep eye on charts to make sure you don't hit anything or get the cable wrapped around anything. As busy as a one armed paper hanger while 'on the line'.

Misc:

Ship had two towers, approx 50', each with antenna and rotator. Antennas on the ships I worked on wire YAGI made with rings (not familiar with term for these) Navigator adjusted antennas for max signal from selected base stations.

Range in the So Pacific and China Sea where I was working was on the order of 100km.

Climbing to top 50' tower on a 100' ship rolling in 20' swells for antenna
work
was very interesting :-)

Accuracy? Approx 10m circle if you were very careful with setup, geodetics,
and
operation and ducting was straight line (usually was).

-bob

A tad more info. I don't know how it's done today...
Ship towed a 1 to 3 km cable depending on survey specs.
Cable has seismometers every 50m or so.
Cable is about 2" diameter and approx neutral bouyance (oil filled)
Depth control is via 'birds'. These slipped over the cable and had
a battery and little dive planes. Signal via inductive coupling through
cable skin. A 'tail bouy' rode on the end of the cable and had a radar
reflector.

On a couple of trips we had Offshore Nav guys at the clients request but
this
was rather uncommon. In a year we had ONI guys for maybe a month total.
Only time we lost a cable, the ONI guys were on watch :-)

I started grad school in Geophysics in 1981. Finished in '83. OPEC fell
apart, oil price dropped, no jobs, end of my short career in the oil
industry.

| > Have you ever heard of the LORAC system?
| >   Dick Dillman, W6AWO
|
| Nice detective work Dick! LORAC used to be all over the Gulf of
| Mexico off the Louisiana coast. Also a nother outfit by the name of
| Offshore Radist
| who later changed the name to Offshore Navigation (As I remember?)
| Sandy Blaize, W5TVW

Message-Id: <200011181713.MAA12118@hat-trick.atl.org>
From: "Bob Duckworth" <wb4mnf@atl.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors reflector" <boatanchors@theporch.com>
Subject: Re: Hyperbolic Radionavigation Systems
Date: Sat, 18 Nov 2000 12:18:56 -0000

| From: Sandy Blaize <ebjr@i-55.com>
| Date: Saturday, November 18, 2000 1:55 AM

|
| >   Dick Dillman, W6AWO
|
| Nice detective work Dick! LORAC used to be all over the Gulf of
| Mexico off the Louisiana coast. Also a nother outfit by the name of
| Offshore Radist
| who later changed the name to Offshore Navigation (As I remember?)

I worked as a navigator in So Pacific and China Sea for Western
Geophysical.
Setup and used MaxiRAN (commercial version of SHORAN).for over a year.

Accuracy: with careful setup accuracy ranged from 5m to 10m radius
depending
on range from transponders, provided angles were good. Not bad for pre-GPS
days but was a lot of work to set up and operate.

This from late '79 to early '81. Ran into the ONI guys on occasion.

-bob
wb4mnf

Message-Id: <4.3.2.7.2.20001118092109.00c865a0@mail.islandnet.com>
Date: Sat, 18 Nov 2000 09:22:11 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: jan@skirrow.org
Subject: Re: BC-1206-C, Shippment, & BC-348 parts.
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>The only manual that I have is on the BC-1206-A. Attached is a schematic
>of the BC-1206-C. The legend says that it is Setchell Carlson. Don't know
>what difference the "M" might make. And unfortunately unlike the schematic
>that I have for the BC-1206-B, it does not have the component values.
>Maybe it will help. If not, at least the price was right. :-)

I'm not sure who Robert was replying to on this, but I do have a manual for
the BC-1206CM should the original poster be interested.

Jan Skirrow, VE7DJX

... in beautiful British Columbia, Canada

*** Please note that my email address has changed from ***
  ***   dma@islandnet.com to jan@skirrow.org   ***

Message-ID: <01C0516B.D3D55D20@dial58.pm3-v90.mystic.riconnect.com>
From: "Christopher A.Bowne" <radiobwn@riconnect.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ART-13 Autotune Freqency Reset Accuracy?
Date: Sat, 18 Nov 2000 14:28:27 -0500

I purchased a nice new (well new in 1956!) MO fine requency control autotune head for my ART-13 at last month's Rochester Hosstraders. I bought it as a posible cure for what I have preceived to be excesive "backlash" in the existing one on the transmitter. It has always had a certain amont of "slop" when locked to a setting, which requires me to manually zero-beat the desired frequency setting after an autotune cycle.
This morning, whole twiddling the new one, I noted that it too, has the same amount of "slop" as the currently installed one - about 9 divisions on the large dial when locked on a setting. Is this normal, which means:

1. The frequency reset capability of the ART-13 is really not very close, and obviously gets worse with increasing frequency.

2. There is no point in changing put the existing autotune for the new one?

Chris Bowne, AJ1G

Message-ID: <000e01c0519e$9671d8e0$8de6acce@b1yhpg64>
From: =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: RAF , WW2, R1132A Receiver Manual/Schematic
Date: Sat, 18 Nov 2000 15:31:11 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bonjour to All
A long long shot, but anbody who would have anything on above W/S?

Andre

Message-ID: <3A16F151.19A58D38@atnet.net>
Date: Sat, 18 Nov 2000 13:14:57 -0800
From: Bob W7AVK <rsrolfne@atnet.net>
MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS - Gonset SUPER SIX
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good Day - For Sale a Gonset SUPER SIX mobile converter. This is a tunable tube converter that covered 10, 11, 15, 19, 20, 40, 49, and 75 meters when operated into the car's radio. Got its power from the car radio and was great for AM operation. Was very popular in the mid and later 1950s.

Unable to try so sold as is. Looks complete and all the controls operate freely. But has a couple scratches on the gray box and a cracked knob.. The extruded aluminum case is good but has a couple small dents that can easily be repaired.

Manual and drawing is on BAMA

$35 plus postage from zip 98837.

73 Bob W7AVK

From: "Claudio Marchesini" <cmar@datamat.it>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need schematics fo Cygnet 270B
Date: Sat, 18 Nov 2000 22:48:34 +0100
Message-ID: <NEBBIFHPMMOJKNEADHCHGEGNCJAA.cmar@datamat.it>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hello Gang,
I'm restoring a nice old transceiver the Cygnet Swan 270B s/n M335324, now I have some problems with the balanced modulator, a 6JH8, where one of the deflection plate has no DC voltage but what's the real problem? Simple, I don't have the exact schematic diagram because mine has different components, for example there is a resistive trimmer on the radio between pin 8&9, but no trace on the diagram.....
Anyone over there can help me? scanning&sending by e-mail would be ideal...

Many thanks in advance.

Greetings

Claudio
BA collector in Italy

"What Japan makes these days is 'communications entertainment devices', not radio!"

Date: Sat, 18 Nov 2000 13:54:14 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: FM broadcast band bandpass filter
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G4800KLVQ2SQH@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

FM stands for "Fine Music" someone once said......haw, haw! Now that the humor is out of the way I need help finding a suitable bandpass filter, either 300 ohm or 75 ohm, or both, depending on how I lash up my new antenna system. I want to use a TV/FM yagi with a rotor to improve station gettability for my vintage HI-Fi's (Scott, Fisher, Dynaco.....) and I want to avoid front end overload from TV stations. Anyone know of a good source for and make of filters that do a good job? Thanks.

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

Message-ID: <003801c051ad$a13b8b40$378abd18@n4fs>
From: "Mike Feher" <n4fs@monmouth.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: FM broadcast band bandpass filter
Date: Sat, 18 Nov 2000 17:19:31 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I suggest you build your own. Decide on the passband and stopband characteristics along with passband ripple and transition band steepness and you are on your way. If you build an Elliptic you can even place one or more of the zeros on any real strong offending TV stations. Of course you must also decide on the input/output impedance. There are many good software programs out there that will give you the topology and the values or you can use tables of normalized element values published in many books. There is one book, I believe by Zverev, that is nothing but tables. You will need a way to measure inductance and capacitance accurately as well as frequency so as to make sure you put the poles and the zeros in the right location. Once that is done, they work like a charm. I still design my passive analog filters manually and they always come out the way I expect them to. Of course access to a network analyzer would also be handy but far from necessary. Good luck with it. 73 - Mike

Mike B. Feher, N4FS
89 Arnold Blvd.
Howell NJ, 07731
(732) 901-9193

----- Original Message -----
From: "Arden Allen" <gumbear@pacbell.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Saturday, November 18, 2000 4:54 PM
Subject: FM broadcast band bandpass filter

> FM stands for "Fine Music" someone once said......haw, haw! Now that the humor is out of the way I need help finding a suitable bandpass filter, either 300 ohm or 75 ohm, or both, depending on how I lash up my new antenna system. I want to use a TV/FM yagi with a rotor to improve station gettability for my vintage HI-Fi's (Scott, Fisher, Dynaco.....) and I want to avoid front end overload from TV stations. Anyone know of a good source for and make of filters that do a good job? Thanks.
>
> Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net
>
>

Message-ID: <3A170169.207D@erols.com>
Date: Sat, 18 Nov 2000 17:23:37 -0500
From: Bruce Muscolino <w6toy@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Hyperbolic Radionavigation Systems
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob,

Well I can't resist. From 1965 until 1967 I was the US Navy's project engineer for Shipboard Satellite Navigation. I was charged with developing a surface ship system to provide worldwide navigation to the surface fleet. In particular, capital ships like Aircraft Carriers, and Cruisers were intended users. I worked in close association with John's Hopkins University's Applied Physics Lab here is Washington, DC.

At the time I took over the project we had about 10 prototype units manufactured by Magnavox in Fort Wayne. One of my jobs was administering the polacment of these units on Carriers to support air operations in South Vietman. Another of my jobs was to write a specification for production units and conduct the Navy's first procurement of production equipment.

Moving equipment from carrier to carrier was a thankless task as I made friend everywhere and was known as "That SOB from Washington". I looked at as collecting the rent on the gear!

The production contract was eventually awarded to ITT/Aerospace Labs in San Fernando. California. They built the navigation receiver, a dual channel tracking receiver. It operated at 150 Mc and 400 Mc. The receiver decoded a digital mesage from the satellite. The message contained the satellites position every two minutes as it went through space. The receiver also collected doppler shift information so a correction could be made using the 150 Mc signal. This was to correct for refraction of the signal path length.

The data was fed to a 'desktop' computer built by Texas Instruments down in Fort Worth. This was probably the first example of a desktop computer ever seen. It was about 4 feet high in a rack! It solved teh Navigation equations and printed out teh result on a ASR-33 teletype machine!

At the time there were many competing forms of short range navigation systems. We defined short range an perhaps never being out of sight of land! They were owned and operated by independent Navigation companies like Western Geo, Ray Geo, and otherse. Major oil companies had tehir own systems, Gulf, Mobil and others.

Satellite Navigation provided one more solution to the mid-ocean navigation problem. Loran and Omega had the same problems with chain identifiaction and interference from weather. The satellites were not as affected. Normally you only heard one satellite ar a time. Launches were rather expensive! I believe the best we ever had was a 4 satellite constellation, once!

The biggest problem satellite navigation faced was the velocity correction required for underway navigation. Consider the system acted as a 'flying' hyperbolic system. You could use it very accurately if you were willing to stay stationary during a satellite pass. Several passes would be more accurate. Very hard to do if you are a warship with others shooting at you! We solved the velocity problem by incorporating data from the SINS system on carriers.

The raw accuracy of the system using both channels was on the order of 3 feet. Using the 400 mHz channel only led to accuracies around 1000 feet. I was the system engineer on a commercial navigation system built by ITT for container ships that used only the single channel.

Hope this has been interesting to some of you!

73

Message-ID: <3A170947.7FF404B@erols.com>
Date: Sat, 18 Nov 2000 17:57:11 -0500
From: aafradio@erols.com
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ART-13 Autotune Freqency Reset Accuracy?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Christopher A.Bowne" wrote:

> I purchased a nice new (well new in 1956!) MO fine requency control
> autotune head for my ART-13 at last month's Rochester Hosstraders. I
> bought it as a posible cure for what I have preceived to be excesive
> "backlash" in the existing one on the transmitter.   It has always had a
> certain amont of "slop" when locked to a setting, which requires me to
> manually zero-beat the desired frequency setting after an autotune cycle.
> This morning, whole twiddling the new one, I noted that it too, has the
> same amount of "slop" as the currently installed one - about 9 divisions on
> the large dial when locked on a setting.

One of the first things a beginning machinist learns is that every machine tool is made out of jello and techniques have to be developed to eliminate the byproducts of removing metal on a platform made out of such wonderfully stable material. My Bridgeport milling machine has about .008" slop in the leadscrews which position the table for milling, and yet I can, with not unreasonable care, achieve a dimension within a repeatable .0002" by always approaching the final setting from one direction. The same is true of the ATC/ART-13 MO assembly, which after all is made of the same steel jello. :-) You'll note that in Autotune mode, the motor will always reset to zero and drive to the final setting in one direction, for the same reason that a machinist will approach his final dimension from a consistent direction. The instructions in the manual advise you to do the same when tuning manually, or when setting the presets. Some of the ART-13 MO dials even included an interpolating vernier on the dial, and setting to within a few tens of Hz isn't at all difficult with these, assuming your calibration book is up to snuff. Note that even the act of tightening the lock may shift the frequency, since any physical movement, even though it may only be .00001", can be enough to change things. Bottom line is that you probably didn't need to buy the new MO mechanism, but on the other hand, it's always nice to get something new!

BTW, I will NOT debate the use of the terms 'accuracy' versus 'precision' - we all know what's meant here. :-)

73,
Mike Hanz KC4TOS

From: JPevner@aol.com
Message-ID: <93.322d940.274863c9@aol.com>
Date: Sat, 18 Nov 2000 17:59:21 EST
Subject: Shack cleaning part II: CE-200V
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Folks, sorry to take up bandwidth with FS stuff, but I have too many projects. So... I have a fine looking CE-200V. The face is very,very good, the case could use an overspray. Naturally, the interior chassis has that spotting which is common to these rigs. I don't think much can be done about that.

Functionally, the rig needs some work.
A) The VFO is very stiff and needs re-lube.

B) Power output is very low, but the finals are OK, so I think it needs complete alignment, and probably some out of tolerance part replacement. I have only put CW out, so I'm sure there will need to be work on the SSB part.

C) The output couplers seem OK, no cracks/burns etc.

D) The limiter was modded with the external battery mod, it should be updated to the no-battery bias circuit.

E) All of the plug-in modules are present.

This rig is kind of complex, but I don't think there are any really expensive/unreplaceable parts that need work. I think there were only 500 made.

I'd like $500 plus shipping form MA.

Thanks for the read, and 73 de Jon P

Message-Id: <3.0.3.32.20001118183817.00d58f48@mindspring.com>
Date: Sat, 18 Nov 2000 18:38:17 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: Of Globes and Kings
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Boatfriends,

After a number of years and several thousand miles, I've finally gotten my Globe King 500C ready to test. I've gone through each deck and measured, cleaned, replaced, etc, and I'm getting ready to load it up and see how it plays.

It HAS passed some level of smoke test, as I had the filament switch on, which, it looks like, provides AC to all of the transformers (although it doesnt apply the B+ to the rest of the rig), and I'm quite pleased to report, no smoke escaped anywhere.

Before I begin the tuneup procedure, I'd like to petition for advice in this procedure. I seem to remember some discussion several years back here, on the peculiarities of this tuneup procedure. I do have the manual and will proceed warily along that line, but if anyone has any tips before I really light it off, my rig, and the 4-400 will thank you!

Best
John

PS: Anyone have any small rack filler panels, or know where I can purchase same?

-=-=-=-=-=-=-=-=-=-=-=-=-=
John Brewer - WB5OAU/4
AMI #24
Clayton NC
johnmb@mindspring.com
-=-=-=-=-=-=-=-=-=-=-=-=-=

Message-ID: <003a01c051b8$23c1a720$0100a8c0@mshome.net>
From: "Manuel Maseda" <mmaseda@gte.net>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need manual for Rohde and Schwarz EK 07/2 receiver
Date: Sat, 18 Nov 2000 18:34:46 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm looking for an English language manual for Rohde and Schwarz EK 07/2 receiver. I have the German langauge version but I can't read German very well. I would also love to hear for other owners of this fine receiver.

Manuel W4SSB

Message-ID: <3A17126F.F3A63391@geo-thermal.com>
Date: Sat, 18 Nov 2000 17:36:15 -0600
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Photomultiplier tubes
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Learned group,

Do photomultiplier tubes (as used in scintillation counters) have a limited life? If so, does anyone have an idea what sort of life they have? Would a monitor (scintillation counter) that operated 24 hours a day be expected to last for years?

Thanks.

--

Lenox

```
-------------------------------------------------------------------
Lenox Carruth            Dallas, TX           carruth@geo-thermal.com
Collector of WW-II Communications Equipment and Memorabilia

Wanted:  TBX-8 Antenna, Key, Canvas Case, Accessory Box
-------------------------------------------------------------------
```

Message-Id: <4.3.2.7.2.20001118160535.00c4d660@mail.islandnet.com>
Date: Sat, 18 Nov 2000 16:07:02 -0800

To: Old Tube Radios <boatanchors@theporch.com>
From: jan@skirrow.org
Subject: AC Motor info needed
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi All ...

I have a piece of gear with an AC fan motor which uses a starting capacitor. What I'm curious about is what happens if this cap is open???

Jan Skirrow, VE7DJX

... in sunny (sometimes rainy) Maple Bay, BC, Canada

****
"So many radios, so little time"

Please note the new URL for Boatanchor Dreams:

http://www.skirrow.org/Boatanchors/

Information, Parts, Pictures, Articles: The R-390A
and other classic gear.

Also, my new e-mail address is:

jan@skirrow.org

****

Date: Sat, 18 Nov 2000 18:18:44 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: AC Motor info needed
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G4900HF22BKPJ@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Jan;

> I have a piece of gear with an AC fan motor which uses a starting
> capacitor. What I'm curious about is what happens if this cap is open???

I don't think that is a starting capacitor. It's a phase shifting capacitor for part of the motor winding arrangement. I forget what type of motor they call that. Without the cap the motor won't run or it will run weakly. Big blowers sometimes use capacitor start motors but not smallish fans.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Sat, 18 Nov 2000 18:26:18 -0800
From: Dan <hankarn@pacbell.net>
Subject: Re: ART-13 Autotune Freqency Reset Accuracy?
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Message-id: <3A173A4A.D45A5544@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Mike, Very well presented,
Thanks, Hank

Date: Sat, 18 Nov 2000 18:53:50 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: AC Motor info needed
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G4900K2E40A7M@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Uummmmmm!

I remember now. It's a *split phase* motor. All them dead grey cells......

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Sat, 18 Nov 2000 22:17:52 -0500 (EST)
Message-Id: <200011190317.eAJ3Hqh11719@ecunet.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: GROUNDING
From: JOHN.SEHRING@ecunet.org

To: boatanchors@theporch.com

Someone mention megging his ground, showed 5 ohms.

That's *DC* resistance.

Lightning is an RF-rich event. It cares about impedance, not just resistance.

-John Sehring (Sat, Nov 18, 2000, temporarily in Chicago) UCC WB0EQ

Date: Sat, 18 Nov 2000 22:17:52 -0500 (EST)
Message-Id: <200011190317.eAJ3HqJ06782@ecunet.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SOTT PHILHARMONIC
From: JOHN.SEHRING@ecunet.org

Scott,

I'd love to hear more about your Scott rx in the BA list. 3 AGC loops, sounds intriguing!

-John Sehring (Sat, Nov 18, 2000, temporarily in Chicago) UCC WB0EQ

From: "Ed Tanton" <n4xy@att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors-Tempe" <BOATANCHORS@LISTSERV.TEMPE.GOV>,
   "Boatanchors Reflector-Jack" <boatanchors@theporch.com>
Subject: RE: Source for Tubes
Date: Sun, 19 Nov 2000 01:43:16 -0500
Message-ID: <CKEGICNFDIMCEKEDCEHFAEPDEMAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Jerry... I highly recommend Bob Aranella as a source for tubes. Whether he has a KWM2A set, I don't know, since my purchase was for a set of 51S-1 tubes a while back. But he did have several 'sets' made up for different Collins (mostly) radios. His tubes are 1st rate-often MIL NOS-and he's a very nice guy to deal with, to boot.

His email is: <rja1@computer.net>

If it needs saying: I'm not in any way connected to Bob... just a very pleased and satisfied customer. He really treated me right.

73 Ed Tanton N4XY <n4xy@arrl.net>

website: http://www.n4xy.com

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA QRP-ARCI NoGaQRP
OK-QRP QRP-L #758 K2 (FT) #00057

End of BOATANCHORS Digest 3039
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